



IAP10 Rec'd PCT/PTO 17 NOV 2005

P4  
PATENT

Atty. Dkt. No. 65084.000012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

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SOYKA, Stephan et al..

) Art Unit: 1761

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Application Number: 10/534,392 ✓

) Examiner: Unassigned

)

Filed: May 9, 2005

) Confirmation No.: 21967

)

For: PROCESS FOR REDUCING THE ACRYLAMIDE  
CONTENT OF HEAT-TREATED FOODSINFORMATION DISCLOSURE STATEMENT**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith copies of the references listed on the attached Form PTO/SB/08A (modified) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form PTO/SB/08A with the Examiner's initials in the left column in accordance with MPEP § 609 is respectfully requested.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made by Applicants.

For the convenience of the Examiner in considering the cited references, a copy of each of the cited references is enclosed with this communication. In considering the cited references, it may be noted by the Examiner that certain of the references may contain markings, underlinings, and/or other notations. These markings, underlinings, and/or other notations are

not to be construed as drawing the Examiner's attention either to selected parts or away from other parts of the cited references. Any such markings were either present on the copies of the cited references obtained by the associated individuals, or were made thereon during the study of the references by the associated individuals.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to issuance of a first Office Action. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: 11/17/05

By:

  
\_\_\_\_\_  
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RMS/CJN:cdh

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

<b>Application Number</b>	10/534,392
<b>Filing Date</b>	May 9, 2005
<b>First Named Inventor</b>	SOYKA, Stephan et al.
<b>Art Unit</b>	1761
<b>Examiner Name</b>	To Be Assigned

<b>Sheet</b>	<b>1 of 11</b>	<b>Attorney Docket Number</b>	65084.000012
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### **U.S. PATENT DOCUMENTS**

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1.	US-				

### **FOREIGN PATENT DOCUMENTS**

*Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENT		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code Number-Kind Code (if known)	Publication Date MM-DD-YYYY			YES	NO
2.	WO	95/15972				<input type="checkbox"/>	<input type="checkbox"/>
3.	WO	97/04112	02/06/1997	Danisco A/S		<input type="checkbox"/>	<input type="checkbox"/>
4.	WO	97/04113	02/06/1997	Danisco A/S		<input type="checkbox"/>	<input type="checkbox"/>
5.	WO	97/11188	03/27/1997	Planttec Biotechnologie GMBH		<input type="checkbox"/>	<input type="checkbox"/>
6.	WO	97/40707	11/06/1997	The Proctor & Gamble Company		<input type="checkbox"/>	<input type="checkbox"/>
7.	WO	98/27212	06/25/1998	Planttec Biotechnologie GMBH		<input type="checkbox"/>	<input type="checkbox"/>
8.	WO	98/37213	08/27/1998	Danisco A/S		<input type="checkbox"/>	<input type="checkbox"/>
9.	WO	98/37214	08/27/1998	Danisco A/S		<input type="checkbox"/>	<input type="checkbox"/>
10.	WO	99/53050	10/21/1999	Commonwealth Scientific and Industrial Research Organisation		<input type="checkbox"/>	<input type="checkbox"/>
11.	WO	00/28052	05/18/2000	Planttec Biotechnologie GMBH		<input type="checkbox"/>	<input type="checkbox"/>
12.	WO	00/77229	12/21/2000	Aventis Cropscience GMBH		<input type="checkbox"/>	<input type="checkbox"/>
13.	EP	0 321 201	06/21/1989	Commonwealth Scientific and Industrial Organisation		<input type="checkbox"/>	<input type="checkbox"/>

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Substitute for form 1449A/PTO

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*(use as many sheets as necessary)*

**Sheet**

**2 of 11**

**Application Number**

10/534,392

**Filing Date**

May 9, 2005

**First Named Inventor**

SOYKA, Stephan et al.

**Art Unit**

1761

**Examiner Name**

To Be Assigned

**Attorney Docket Number**

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### **OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
			YES	NO
14.	Aarts et al. (1993) Nature 363: 715-717		<input type="checkbox"/>	<input type="checkbox"/>
15.	Altman et al. (1992) Theoretical and Applied Genetics 84: 371-383		<input type="checkbox"/>	<input type="checkbox"/>
16.	Annual Meeting of the Am. Soc. of Plant Biologists in Madison (1998) WI USA "Molecular and transgenic studies of asparagine synthetase genes in <i>Arabidopsis thaliana</i> ." Abstract No. 535		<input type="checkbox"/>	<input type="checkbox"/>
17.	Anonymous Internet Article (2002) Access No. XP 002269721		<input type="checkbox"/>	<input type="checkbox"/>
18.	Anonymous Internet Article (2002) Access No. XP 002269722		<input type="checkbox"/>	<input type="checkbox"/>
19.	Atipiroz-Leehan and Feldmann (1997) Trends in genetics 13 (4): 152-156		<input type="checkbox"/>	<input type="checkbox"/>
20.	Baba et al. (1991) "Sequence Conservation of the Catalytic Regions of Amylolytic 1 Enzymes in Maize Branching Enzyme-I," Biochemical and Biophysical Research Communications, Vol. 181(1): 98-94		<input type="checkbox"/>	<input type="checkbox"/>
21.	Bachem et al., (1996) The Plant Journal 9(5): 745-753		<input type="checkbox"/>	<input type="checkbox"/>
22.	Beetham et al., (1999) PNAS 96: 8774-8778		<input type="checkbox"/>	<input type="checkbox"/>
23.	Belzile and Yoder (1992) The Plant Journal 2(2): 173-179		<input type="checkbox"/>	<input type="checkbox"/>

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Filing Date</b>	May 9, 2005	
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			YES	NO
			YES	NO
	24.	Blennow, et al. (2002) "Starch phosphorylation: a new front line in starch research", Trends in Plant Science, Vol. 7(10): 445-450	<input type="checkbox"/>	<input type="checkbox"/>
	25.	Bolivar et al. (1977) Construction and Characterization of new cloning vehicles II. Gene 2: 95-113	<input type="checkbox"/>	<input type="checkbox"/>
	26.	Castiglioni et al. (1998) Genetics 149: 2039-2056	<input type="checkbox"/>	<input type="checkbox"/>
	27.	Cho et al. (1999) Nature Genetics 23: 203-207	<input type="checkbox"/>	<input type="checkbox"/>
	28.	Cole-Strauss et al. (1996) Science 273: 1386-1389	<input type="checkbox"/>	<input type="checkbox"/>
	29.	Cornelissen and Vanderwiele (1989) Nuclear transcriptional activity of the tobacco plastid psbA promoter. Nucleic Acids Research 17: 19-29	<input type="checkbox"/>	<input type="checkbox"/>
	30.	de Borne et al. (1994) Mol. Gen. Genet. 243: 613-621	<input type="checkbox"/>	<input type="checkbox"/>
	31.	Depicker et al. (1982) Journal of Molecular and Applied Genetics 1: 561-573	<input type="checkbox"/>	<input type="checkbox"/>
	32.	Drenkard et al. (2000) Plant Physiology 124: 1483-1492	<input type="checkbox"/>	<input type="checkbox"/>
	33.	Enoki et al. (1999) The Plant Journal 19(5): 605-613	<input type="checkbox"/>	<input type="checkbox"/>
	34.	FAO/WHO (25-27 June 2002) "Consultation on Health implications of acrylamide in food." pp. 1-39	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
			YES	NO
	35.	de Feyter et al. (1996) Mol. Gen. Genet. 250: 329-338	<input type="checkbox"/>	<input type="checkbox"/>
	36.	Flavell et al. (1995) "Developmental regulation of co-suppression in <i>Petunia hybrida</i> ." Curr. Top. Microbiol. Immunol. 197: 43-56	<input type="checkbox"/>	<input type="checkbox"/>
	37.	Frey et al. (1989) Molecular and General Genetics 217: 172-177	<input type="checkbox"/>	<input type="checkbox"/>
	38.	Gielen et al. (1984) The EMBO J 3(4): 835-846	<input type="checkbox"/>	<input type="checkbox"/>
	39.	Greco et al. (2001) Plant Physiology 125: 1175-1177	<input type="checkbox"/>	<input type="checkbox"/>
	40.	Greiner et al. (July 1999) Ectopic expression of a tobacco invertase inhibitor homolog prevents cold-induced sweetening of potato tubers. Nat Biotechnol. 17(7): 708-11	<input type="checkbox"/>	<input type="checkbox"/>
	41.	Haase et al. (2003) Deutsche Lebensmittel-Rundschau 99(3): 87-90	<input type="checkbox"/>	<input type="checkbox"/>
	42.	Hanley et al. (2000) "Identification of transposon-tagged genes by the random sequencing of Mutator-tagged DNA fragments from <i>Zea mays</i> ." The Plant Journal 23(4): 557-566	<input type="checkbox"/>	<input type="checkbox"/>
	43.	Hirochika (2001) Current Opinion in Plant Biology 4: 118-122	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
			YES	NO
	44.	Hovenkamp-Hermelink et al. (1987) Theoretical and Applied Genetics 75: 217-221	<input type="checkbox"/>	<input type="checkbox"/>
	45.	Itoh et al. (1984) "Genetic and molecular characterization of the <i>Pseudomonas</i> plasmid pVS1." Plasmid 11: 206-220	<input type="checkbox"/>	<input type="checkbox"/>
	46.	Jarvis et al. (1994) Plant Molecular Biology 24: 685-687	<input type="checkbox"/>	<input type="checkbox"/>
	47.	Jauhar and Siddiq (1999) Indian Journal of Genetics 59(1): 23-28	<input type="checkbox"/>	<input type="checkbox"/>
	48.	Jeon et al. (2001) "Gene tagging in rice: a high throughput system for functional genomics." Plant Science 161: 211-219	<input type="checkbox"/>	<input type="checkbox"/>
	49.	Jorgensen (1990) "Altered gene expression in plants due to trans interactions between homologous genes." Trends Biotechnol. 8: 340-344	<input type="checkbox"/>	<input type="checkbox"/>
	50.	Khoshnoodi, et al. (1996) "The multiple forms of starch-branched enzyme I in <i>Solanum tuberosum</i> ," Eur. J. Biochem. 242: 148-155	<input type="checkbox"/>	<input type="checkbox"/>
	51.	Kim, et al. (1998) "Genomic Organization and Promoter Activity of the Maize Starch Branching Enzyme I Gene," Gene 216: 233-243	<input type="checkbox"/>	<input type="checkbox"/>
	52.	Knapp et al. (1988) Molecular and General Genetics 213: 285-290	<input type="checkbox"/>	<input type="checkbox"/>
	53.	Konieczny and Ausubel (1993) The Plant Journal 4: 403-410	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
			YES	NO
	54.	Koprek et al. (2000) The Plant Journal 24(2): 253-263	<input type="checkbox"/>	<input type="checkbox"/>
	55.	Koßmann, et al. (1991) "Cloning and expression analysis of a potato cDNA that encodes branching enzyme: evidence of co-expression of starch biosynthetic genes," Mol. Gen. Genet 230:39-44	<input type="checkbox"/>	<input type="checkbox"/>
	56.	Kren et al. (1997) Hepatology 25: 1462-1468	<input type="checkbox"/>	<input type="checkbox"/>
	57.	Krysan et al. (1999) The Plant Cell 11: 2283-2290	<input type="checkbox"/>	<input type="checkbox"/>
	58.	Kumar and Hirochika (2001) Trends in Plant Science 6 (3): 127-134	<input type="checkbox"/>	<input type="checkbox"/>
	59.	Lam et al. (1994) "Metabolic Regulation of the Gene Encoding Glutamine-Dependent Asparagine Synthetase in <i>Arabidopsis thaliana</i> ," Plant Physiol. 106: 1347-1357	<input type="checkbox"/>	<input type="checkbox"/>
	60.	Larsson, et al. (1998) "Molecular cloning and characterization of starch-branched enzyme II from potato", Plant Molecular Biology 37: 505-511	<input type="checkbox"/>	<input type="checkbox"/>
	61.	Leister and Dean (1993) The Plant Journal 4(4): 745-750	<input type="checkbox"/>	<input type="checkbox"/>
	62.	Liu et al. (2000) Biochemical Society Transactions 28(6): 927-929	<input type="checkbox"/>	<input type="checkbox"/>

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		Art Unit	1761	
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Sheet	7 of 11	Attorney Docket Number	65084.000012	
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			YES	NO
	63.	Liu et al. (1999) Molecular and General Genetics 262: 413-420	<input type="checkbox"/>	<input type="checkbox"/>
	64.	Lorberth et al. (May 1998) "Inhibition of a starch-granule-bound protein leads to modified starch and repression of cold sweetening." Nat Biotechnol. 16(5): 473-7.	<input type="checkbox"/>	<input type="checkbox"/>
	65.	Maes et al. (1999) Trends in Plant Science 4(3): 90-96	<input type="checkbox"/>	<input type="checkbox"/>
	66.	Manzocco et al. (2001) "Review of non-enzymatic browning and antioxidant capacity in processed foods," Trends in Food Science & Technology 11: 340-346	<input type="checkbox"/>	<input type="checkbox"/>
	67.	Martin, et al. (2001) "Formation of Strecker Aldehydes and Pyrazines in a Fried Potato Model System," J. Agric. Food Chem. 49: 3885-3892	<input type="checkbox"/>	<input type="checkbox"/>
	68.	Martins, et al. (2001) "A review of Maillard reaction in food and implications to kinetic modelling," Trends in Food Science & Technology 11: 364-373	<input type="checkbox"/>	<input type="checkbox"/>
	69.	McCallum et al. (2000) Plant Physiology 123: 439-442	<input type="checkbox"/>	<input type="checkbox"/>
	70.	McKinney et al. (1995) The Plant Journal 8(4): 613-622	<input type="checkbox"/>	<input type="checkbox"/>
	71.	Meksem et al. (2001) Molecular Genetics and Genomics 265: 207-214	<input type="checkbox"/>	<input type="checkbox"/>
	72.	Mette et al. (2000) EMBO J. 19: 5194-5201	<input type="checkbox"/>	<input type="checkbox"/>
	73.	Meyer et al. (1998) Molecular and General Genetics 259: 150-160	<input type="checkbox"/>	<input type="checkbox"/>
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			YES	NO
			YES	NO
	74.	Mottram et al. (3 October 2002) "Acrylamide is formed in the Maillard reaction." Nature. 419(6906): 448-9	<input type="checkbox"/>	<input type="checkbox"/>
	75.	Müller-Röber et al. (April 1992) "Inhibition of the ADP-glucose pyrophosphorylase in transgenic potatoes leads to sugar-storing tubers and influences tuber formation and expression of tuber storage protein genes." EMBO J. 11(4): 1229-38.	<input type="checkbox"/>	<input type="checkbox"/>
	76.	Nam et al. (1989) The Plant Cell 1: 699-705	<input type="checkbox"/>	<input type="checkbox"/>
	77.	Odell et al. (1985) Nature 313: 810-812	<input type="checkbox"/>	<input type="checkbox"/>
	78.	Palaqui and Vaucheret (1995) Plant. Mol. Biol. 29: 149-159	<input type="checkbox"/>	<input type="checkbox"/>
	79.	Parinov and Sundaresan (2000) Current Opinion in Biotechnology 11: 157-161	<input type="checkbox"/>	<input type="checkbox"/>
	80.	Qi et al. (2001) Nucleic Acids Research 29(22): e116	<input type="checkbox"/>	<input type="checkbox"/>
	81.	Ramachandran and Sundaresan (2001) Plant Physiology and Biochemistry 39: 234-252	<input type="checkbox"/>	<input type="checkbox"/>
	82.	Rao (1977) Cytologica 42: 443-450	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
			YES	NO
	83.	Ritte <i>et al.</i> (2002 May 14) "The starch-related R1 protein is an alpha -glucan, water dikinase." Proc Natl Acad Sci U S A. 99(10): 7166-71	<input type="checkbox"/>	<input type="checkbox"/>
	84.	Ritte, et al. (2000) "Reversible binding of the starch-related R1 protein to the surface of transitory starch granules", The Plant Journal 21: 387-391	<input type="checkbox"/>	<input type="checkbox"/>
	85.	Rocha-Sosa et al. (1989) EMBO J. 8: 23-29	<input type="checkbox"/>	<input type="checkbox"/>
	86.	Roessner <i>et al.</i> (November 2001) "High-resolution metabolic phenotyping of genetically and environmentally diverse potato tuber systems. Identification of phenocopies." Plant Physiol. 127(3): 749-64.	<input type="checkbox"/>	<input type="checkbox"/>
	87.	Romagni, et al. (2000) "Measuring Asparagine Synthetase Activity in Crude Plant Extracts," J. Agric. Food Chem. 48: 1692-1696	<input type="checkbox"/>	<input type="checkbox"/>
	88.	Schmidt and Willmitzer (1989) Molecular and General Genetics 220: 17-24	<input type="checkbox"/>	<input type="checkbox"/>
	89.	Sharp <i>et al.</i> (2003 Feb 1) "Acrylamide in food" Lancet 361(9355): 361-2	<input type="checkbox"/>	<input type="checkbox"/>
	90.	Singh et al. (2000) Biochemical Society Transactions 28(6): 925-927	<input type="checkbox"/>	<input type="checkbox"/>
	91.	Smith et al. (2000) Nature 407: 319-320	<input type="checkbox"/>	<input type="checkbox"/>
	92.	Smith-White et al. (1994) "Suggested Mnemonics for Cloned DNA Corresponding to Enzymes Involved in Starch Metabolism", Plant Molecular Biology Reporter 12: S67-S71	<input type="checkbox"/>	<input type="checkbox"/>

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Substitute for form 1449A/PTO		<b>Application Number</b>	10/534,392	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Filing Date</b>	May 9, 2005	
		<b>First Named Inventor</b>	SOYKA, Stephan et al.	
		<b>Art Unit</b>	1761	
		<b>Examiner Name</b>	To Be Assigned	
Sheet	10 of 11	Attorney Docket Number	65084.000012	

### OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
			YES	NO
	93.	Stadler <i>et al.</i> (2002 Oct 3) "Acrylamide from Maillard reaction products." Nature 419(6906): 449-50.	<input type="checkbox"/>	<input type="checkbox"/>
	94.	Stark <i>et al.</i> (1992) Science 258: 287-292	<input type="checkbox"/>	<input type="checkbox"/>
	95.	Stark <i>et al.</i> (1996) Annals of New York Academy of Sciences 792: 26-36	<input type="checkbox"/>	<input type="checkbox"/>
	96.	Tareke <i>et al.</i> (2002 Aug 14) "Analysis of acrylamide, a carcinogen formed in heated foodstuffs." J Agric Food Chem. 50(17): 4998-5006.	<input type="checkbox"/>	<input type="checkbox"/>
	97.	Thompson <i>et al.</i> (1987) The EMBO Journal 6: 2519-2523	<input type="checkbox"/>	<input type="checkbox"/>
	98.	Thorneycroft <i>et al.</i> (2001) Journal of Experimental Botany 52: 1593-1601	<input type="checkbox"/>	<input type="checkbox"/>
	99.	Tissier <i>et al.</i> (1999) The Plant Cell 11: 1841-1852	<input type="checkbox"/>	<input type="checkbox"/>
	100.	Tolmasky (1990) Sequencing and Expression of aadA, bla, and tnpR from the multiresistance transposon Tn1331 Plasmid 24(3): 218-226	<input type="checkbox"/>	<input type="checkbox"/>
	101.	Tolmasky and Crosa (1993) Genetic organization of antibiotic resistance genes (acc(6')-Ib, aadA, and oxa9) in the multiresistance transposon Tn 1331. Plasmid 29(1): 31-40	<input type="checkbox"/>	<input type="checkbox"/>
	102.	Vaucheret <i>et al.</i> (1995) Mol. Gen. Genet. 248: 311-317	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
			YES	NO
	103.	Wang and Waterhouse (2000) Plant Mol. Biol. 43: 67-82	<input type="checkbox"/>	<input type="checkbox"/>
	104.	Waterhouse et al. (10 November 1998) PNAS USA 95(23): 13959-13964	<input type="checkbox"/>	<input type="checkbox"/>
	105.	Young et al. (2001) Plant Physiology 125: 513-518	<input type="checkbox"/>	<input type="checkbox"/>
	106.	Zrenner et al. (1996) ratio in cold-stored potato tubers." Planta 198(2): 246-52.	<input type="checkbox"/>	<input type="checkbox"/>

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